

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

David Feifel

Application No.: 10/538,245

Filed: June 7, 2005

For: METHOD OF INHIBITING NEURAL TRANSMISSION MEDIATED BY SEROTONIN-2A AND ENHANCING

SENSORIMOTOR GATING

MAIL STOP Amendment

Group Art Unit: 1649

Examiner: Aditi DUTT

Confirmation No.: 3580

Certificate of Mailing
I hereby certify that this correspondence is being deposited with the United States Poslal Service "Express Mail Posl Office to Addressee" service under 37 C.F.R. \$1.10. Express Mail Label No. 2V 892 880 923 US

January 3, 2008 and is addressed to the Commissioner for Patents, P.O. Box 1450.

m A. Cabello

Alexandria, VA 22313-1450.

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

- 1. I, David Feifel, having an address at 8241 La Jolla Scenic Drive North, La Jolla, California, 92037 am the inventor of the above-captioned United States Patent Application Serial No.10/538,245, which claims priority to International Patent Application Serial No. PCT/US03/039196, filed December 8, 2003 and United States Provisional Patent Application No. 60/431,937, filed December 9, 2002.
- 2. I am familiar with the prosecution history of Patent Application Serial No. 10/538,245. I understand that Hedley et al. is being cited as a reference against the claims of the application because Hedley et al. allegedly teaches the claimed invention prior to my invention date.
- 3. I submit that Hedley, et al. (Society for Neuroscience, 2002, Online) is not available as prior art under 35 U.S.C §102 or §103, because the publication is not prior to my invention date.

- 4. I submit that I conceived of the use of NT69L as a modulator of schizophrenia and other neuropsychiatric problems prior to Hedley et al. (published August 2002) and that I was diligent in reducing the claimed invention to practice up to and including the filing date of U.S. Patent Application No. 60/431,937, filed on December 9, 2002.
- 5. Evidence of the conception of the claimed invention is supplied in the form of a copy of notes (Exhibit A) from my laboratory notebooks, prior to August 2002, the publication date of Hedley et al. These notes show the reduction to practice of NT69L in the rat model of schizophrenia (the same model used by Hedley et al. in the publication being cited after my invention date).

Prior to the public availability of Hedley et al. (August 2002), the testing and identification of NT69L as a potential modulator of schizophrenia, bipolar disorders, anxiety and depression in rat models was first performed by me or under my direction at the University of California, San Diego, using an accepted rat model having reduced prepulse inhibition. I, or my technicians at my direction, first tested NT69L in the rat pre-pulse inhibition model startle reflex assay as early, and earlier than, July 2002, prior to Hedley et al.'s publication.

The laboratory pages of Exhibit A show dose calculations for NT69L and Rat Startle Run Sheets generated prior to August 2002. The Rat Startle Run Sheets demonstrate measurements of control and test groups in the prepulse inhibition (PPI) of the acoustic startle response rat model, one of the models used in Hedley et al. These experiments were carried out prior to August 2002.

I was diligent from the time of conception of the invention with respect to the use of neurotensin agonists including NT69L in the treatment of various psychotic disorders including bipolar, anxiety, depression and schizophrenia prior to August 2002 until the filing of the priority application on December 9, 2002.

6. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful

Attorney's Docket No. <u>1034123-000122</u> Application No. <u>10/538.245</u> Page 3

false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

Date January 02 08

David Feifel

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DF9202 NT69/DOI

DOI (0.5 mg/kg)

need! 4 mg DOI

weigh: 0.00 \$ 62 g = 4. 62 mg = 9.24 ml saline

NT69 (0.01,0.1, 1.0 mg/kg)

need: 4.44 mg NT69

weigh: 0.00500 q = 5.00 mg

(1.0 mg/kg) 5.00 mg = 5.00 ml saline - 0.44 ml = 4.56 ml

(0.1 mg/kg) -take 0.44 ml x 9 = 3.9 io ml saline +0.44 ml [MID] 8.100 4.40 ml T.V. -0.4 ml = 4.0 ml

(0.01 mg/kg) take 0.40 ml x 9=3.6 ml saline +0.4 me 4.0 ml T.V (LOW) 8 rate